# know that your actions reflect within the group James Saunders / 2017

## **INSTRUMENTS**

flute

contrabass recorder

trombone (plunger mute)

vibraphone (metal sheet, polystyrene block, plastic cup, wood sheet, cardboard coffee cup, 2 surfaces) melodica

electric guitar (ebow; delay, distortion, wah and volume pedals)

violin (polystyrene block)

cello (polystyrene block)

## auxiliary instruments \*

8 desk bells

8 whistles

8 harmonicas

8 bicycle horns

8 kazoos

8 shakers

8 tuning forks

8 glass bottles

8 metal biscuit tin lids

8 wood boxes

8 squeakers

8 music box mechanisms

\*one of each per player / mixed pitches

8 sample playback devices

The samples are available from the composer on request.

duration: variable (c.10-15 minutes)



## **SETUP**

Each player needs a table with their 12 auxiliary instruments placed on it. The arrangement of the instruments should be identical for each player so that when they reach for an instrument, all players move in the same direction.

The percussion, violin and cello players should additionally fix their bowed objects on the table.

The players each need a sample playback device (e.g. a tablet, keyboard, or control surface). These should ideally be the same for all players. The devices should be placed on the tables, or on a separate stand.

The sample playback and voices need to be loud enough to be heard comfortably over the instrumental sounds. This may require amplification in order to achieve a balance. This can either be through individual setups for each player or a PA. The spatial location of the sample playback and voices in relation to each player should be maintained.

Each of the sample playback devices should be prepared with the samples listed below. The samples should play through completely each time they are cued, then stop.

## Flute telephone2 [38229 charliefarley ringuk1965].wav aerosol2 [347241 bravefrog spray].wav radio2 [261873 djnicke am-tuning].wav drill1 [26344 streety drill].wav cheer2 [267248 berlingamescene berlingamescene].wav cough2 [184871 eelke coughing].wav scream2 [382989 julialn scream-girl].wav footsteps1 [181728 weizjeidy footsteps].wav mouse2 [195305 yoh computer-mouse-clicks].wav pencil2 [211247 tomoyo-ichijouji scribble].wav tape2 [151446 tgfcoder ripping-unravelling-packaging-tape].wav scissors1 [178669 hanbaal scissor-snips].wav chicken2 [371216 mrthenoronha cock-a-doodle-doo].wav frog2 [149092 lepolainyann frogs].wav duck2 [361541 rombart canards-andernos-2014-3].wav pig1 [233182 jarredgibb pig-multiple-snorts-3-2-pigs-96khz].wav thunder2 [194364 dave-welsh thunder-clap-owb-ky-441x16].wav fireworks2 [117616 soundmary fireworks-exploding-1].wav laser2 [268168 shaun105 laser].wav glass1 [194684 kingsrow breakingvase02].wav helicopter2 [37805 mw-1984 helicopter].wav motorbike2 [49328 heigh-hoo hayabusa3].wav bicycle2 [267907 chemicatz bike-cvrk].wav skid1 [271337 therisingorder car-peels-off].wav

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Contrabass Recorder
camera2 [16071 heigh-hoo nikonf4].wav
microwave4 [119454 Imbubec microwave].wav
buzzer3 [52004 scarfield door-buzzzzer].wav
till2 [253946 imayoff grocery-store-cash-register].wav
baby2 [346663 adam-n baby-cry].wav
clap4 [333386 jayfrosting applause-2].wav
boo3 [324893 adam-n crowd-boo].wav
sneeze2 [185619 organicmanpl sneeze].wav
stapler2 [369127 jgarc stapler-sound].wav
printer4 [151744 eakoontz printer-printing].wav
typewriter3 [390343 megashroom typewriter-170428-1482].wav
ruler2 [119793 Imbubec springboard-a].wav
cat2 [156643 yoyodaman234 catmeow1].wav
owl4 [177605 kangaroovindaloo fryers-forest-powerful-owl-ninox-stenua].wav
donkey3 [246406 felix-blume donkeys-braying-at-the-market-of-assem-souk].wav
crow2 [56233 q-k crows-01].wav
cork2 [371826 iamgiorgio i6-wine-bottle].wav
hammer4 [328762 aerror hammering].wav
whip3 [254871 blukotek swish-whip].wav
racket2 [379335 13fpanska-marval-lukas tennis].wav
train2 [125211 keithpeter steam-train-leaving-moor-st-station].wav
siren4 [325280 adam-n sirens].wav
subway3 [223836 3bagbrew london-underground-last-train-to-brixton].wav
plane2 [352134 rachaelbuchanan jet-overhead].wav
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Trombone Vibraphone drill4 [386248 | Idezem | pneumatic-drill-desoutter-trough].wav camera1 [261007 polecatz camera-canon-5d-iii].wav microwave3 [128867 1piladd2 microwave-usage].wav telephone1 [343615 dpsa noise].wav buzzer2 [383352 deleted-user-7146007 buzz-buzzer-buzzing-sound-effect].wav aerosol1 [181266 capslok aerosol-can-shake-open-spray].wav till1 [165016 rollingmill supermarket-cash-register].wav radio1 [106747 funkyfierce radio-sound].wav footsteps4 [240356 mariiao2 4-steps].wav baby1 [240372 mariiao2 baby-cry].wav cheer1 [333405 jayfrosting cheer-1-short].wav clap3 [324891 adam-n crowd-claps].wav boo2 [324893 adam-n crowd-boo].wav cough1 [391284 igor1998 cough].wav sneeze1 [221518 danieka woman-sneeze].wav scream1 [395736 splushionsindasky terror-scream-grito-de-terror-caro-2].wav scissors4 [51164 rutgermuller scissors-cutting-air].wav stapler1 [393898 rodzuz stapler].wav printer3 [333146 vacuumfan7072 epson-stylus-color-440-sounds].wav mouse1 [95563 j1987 mouse].wav typewriter2 [334458 evsecrets typing-on-a-typewriter-with-ding-at-end-of-eachpencil1 [267501 purplewalrus23 pencil2].wav line].wav tape1 [245200 alaskarobotics duct-tape-unroll-5].wav cat1 [100030 nfrae beef-mow1].wav ruler1 [119795 Imbubec springboard-c].wav pig4 [233179 jarredgibb pig-multiple-snorts-6-2-pigs-96khz].wav chicken1 [208021 cocoricosound cock-a-doodle-doo].wav owl3 [367964 bluedelta owl-in-calm-environment-natural-reverb-4-channel-44khz].wav frog1 [344639 dbgrant frogs].wav duck1 [324087 iggyf north-yorks-mallard-frenzy].wav donkey2 [388181 videokunst13 esel].wav cork1 [381399 beeproductive wine].wav crow1 [353432 blimp66 crows].wav glass4 [194685 kingsrow breakingvase01].wav thunder1 [265119 vpdavo rain-and-thunder-verandah].wav hammer3 [344438 thiagoriedel crashing-wall-with-a-hammer].wav fireworks1 [349802 kingsrow fireworks08].wav whip2 [51755 erkanozan whip-01].wav laser1 [394919 navadaux laser-gun].wav racket1 [379996 drewhalasz tennis-hitting-balls-running-birds-mono].wav train1 [277497 7z7 steam-train-molli-passes-through-without-whistle].wav helicopter1 [388287 pan14 helicopter-passby-1].wav skid4 [178889 martian car-park-skiding-corner].wav motorbike1 [361403 richwise sportsbike-flyby].wav siren3 [159743 conleec amb-siren-police-misc-stationary-001].wav subway2 [352891 kinoton hamburg-subway-arrival-departure].wav bicycle1 [120373 faruku bycycle-rattle].wav plane1 [242952 duophonic small-plane-at-100-feet-approx].wav Melodica Electric Guitar camera4 [157812 akonze dslr-camera-click].wav radio4 [215154 marzipankittens radioscroll].wav telephone4 [15826 transitking telephonering].wav drill3 [95562 j1987 drill].wav microwave2 [102692 cambra microwave].wav aerosol4 [179916 toiletrolltube 110920-02-inhaler].wav till4 [83915 cognito-perceptu cash-register].wav buzzer1 [164089 hypocore buzzer2].wav baby4 [371303 iamgiorgio c1-baby-crying].wav scream4 [360465 topschool scream01].wav cheer4 [346689 adam-n crowd-cheer-2].wav footsteps3 [392483 gpag1 footsteps-boots].wav cough4 [326096 1980supra cough-cough].wav clap2 [267930 anagar clapping].wav sneeze4 [54505 sagetyrtle sneeze].wav boo1 [390423 mezcel 336997-corsica-s-boo-01-mezcelized].wav stapler4 [91490 skynproduction stapler].wav tape4 [151446 tgfcoder ripping-unravelling-packaging-tape].wav mouse4 [347230 bravefrog click].wav scissors3 [390169 megashroom scissors-snipping-in-air-170427-1458].wav pencil4 [235503 ekfink notepad-pencil-writing].wav printer2 [345054 azumarill epson-receipt-printer5].wav ruler4 [148976 adam-n twang-11].wav typewriter1 [43559 tams-kp typewriter19].wav cat4 [385892 spacether 262312-steffcaffrey-cat-meow1].wav duck4 [332423 voho ducks-in-parc-merl-2].wav pig3 [233180 jarredgibb pig-multiple-snorts-5-2-pigs-96khz].wav chicken4 [391313 cabled-mess rooster-crowing-27112016-processed].wav owl2 [367964 bluedelta owl-in-calm-environment-natural-reverb-4-channel-44khz].wav frog4 [344639 dbgrant frogs].wav crow4 [249567 calcuttan crows-of-calcutta].wav donkey1 [246406 felix-blume donkeys-braying-at-the-market-of-assem-souk].wav cork4 [377997 13gpanska-gorbusinova-anna opening-a-bottle-of-wine].wav laser4 [335034 cabled-mess laser-shots].wav thunder4 [238145 andy-gardner thunder].wav glass3 [276938 gladkiy breaking-glass-mirror-rode-ntg3].wav fireworks4 [349807 kingsrow fireworks13].wav hammer2 [383726 deleted-user-7146007 construction-sounds-hammering-a-nail].wav racket4 [338122 jacklilley tennis-ball-being-hit].wav whip1 [377134 pinball-wiz multiple-whooshes].wav train4 [256259 jstorm-57 union-pacific-freight-train-at-crossing].wav bicycle4 [218302 splicesound bike-back-wheel-coasting].wav helicopter4 [333505 sandermotions sea-king-helicopter].wav skid3 [131385 musicmasta1 carstartskidcrash].wav motorbike4 [163596 taniyatsu motorcycle-sfx].wav siren2 [325280 adam-n sirens].wav plane4 [215447 laribum ps-fast-flighby-01].wav subway1 [320460 alcappuccino subway-metro-platform-in-vienna-austria].wav

## Violin camera3 [155385 jgrzinich 3-analog-camera-shutters].wav telephone3 [79440 xyzr-kx telephone-ring].wav buzzer4 [332563 larasark buzzer].wav till3 [376824 beeproductive supermarket].wav baby3 [393769 nektaria909 baby-cry].wav cheer3 [139972 jessepash crowd-yay-applause-25ppl-short].way boo4 [324893 adam-n crowd-boo].wav sneeze3 [383788 deleted-user-7146007 man-sneezing-sneeze-into-hands].wav stapler3 [331155 starinatwalls stapling-machine].wav mouse3 [146877 tgfcoder mouse-clicks-and-scroll-wheel].wav typewriter4 [371219 kemp84 typewriter-macchina-da-scrivere].way ruler3 [119794 Imbubec springboard-b].wav cat3 [214759 peridactyloptrix cat-meowing-x5].wav chicken3 [269496 poorenglishjuggler rooster-crowing].wav donkey4 [246406 felix-blume donkeys-braying-at-the-market-of-assem-souk].wav crow3 [173866 conleec anml-m-ext-crow-calls-single1].wav cork3 [392624 kenrt champagne-cork].wav thunder3 [353025 laribum thunder-01].wav whip4 [372899 fairhavencollection guick-swhooshing-noise].wav racket3 [379335 13fpanska-marval-lukas tennis].wav train3 [239933 nikitralala bangalore-zug-schnell].wav helicopter3 [181071 dwareing helicopter1].wav subway4 [348839 bashrambali detroit-people-mover].wav plane3 [348601 kingsrow planeflyover01].wav

Cello aerosol3 [245855 blukotek deodorant].wav radio3 [372221 skymary radio-tuning-switching-through-frequencies-german-radiostations].wav drill2 [199929 thedapperdan drill].wav microwave1 [27367 gallagho microwave].wav cough3 [371360 goldkelchen cough].wav scream3 [169811 missozzy female-scream-02].wav footsteps2 [51163 rutgermuller running-up-the-stairs].wav clap1 [138113 snakebarney small-crowd-applause-1].wav pencil3 [365891 rui-aires writing-pencil-2].wav tape3 [151446 tgfcoder ripping-unravelling-packaging-tape].wav scissors2 [315716 organicmanpl scissors].wav printer1 [182893 toiletrolltube printer-2-16-1-11].wav frog3 [381721 alancat frogs2a].wav duck3 [244329 squashy555 ducks1].wav pig2 [233183 jarredgibb pig-multiple-snorts-2-2-pigs-96khz].wav owl1 [363472 sclolex owlandtheharvestmoon].wav fireworks3 [347163 kinoton firework-single-rocket].wav laser3 [73537 snipperbes classiclaser].wav glass2 [209996 creapersound glass-crash].wav hammer1 [251434 colo777 mlotek].wav motorbike3 [83486 bsumusictech motorcycle2].wav bicycle3 [181137 jamesrodavidson foley-bike-2].wav skid2 [104026 rutgermuller tires-squeaking].wav siren1 [322205 freesoundjon01 police-car-budapest].wav

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## PERFORMANCE INSTRUCTIONS

know that your actions reflect within the group explores multitasking, cognitive load and group decision making. The players give and respond to three types of cues: spoken words and paired audio samples, auxiliary instruments, and drones. These different cue layers run in parallel, causing players to switch between different modes of cue-giving and response. The density, speed and patterning of these cues causes different amounts of cognitive load on the players, altering their response times and with it the texture of the resulting music. The cue system also creates a *lingua franca* between the players, giving them a shared means to direct each other's behaviour. Players may try to exert control over the group, work together, team up to make the task more taxing for individuals, and adopt many other common behaviours that are familiar within working groups. The piece embodies the values of consensus, collectivism, and equality, while facilitating approaches that allow for disruption, control, vindictiveness and individualism.

The piece involves all players giving cues and responding to cues given by others.

There are three types of cue:

#### 1. SPOKEN WORDS / SAMPLES

There are 48 different cue words and associated samples in six categories (device, human, office, transport, animal, explosion).

Each player has a selection of 24 of these word-sample pairs.

The cues are given either as spoken words or sample playback.

Each time one of the players gives a cue, the players who have an associated sound must play their response as quickly as possible after they hear the cue. The players respond independently and should not aim to play in rhythmic unison (although this might occur naturally). Sounds should be generally short.

For each cue, the responding players play the high pitch (on the left of each pair) in response to a spoken cue and a low pitch (on the right) in response to a sample cue. For each cue, four players have a response. Players do not have a response for any cues they give. For example, for the cue 'motorbike', the melodica, vibraphone, flute or cello players may give the cue (either as a spoken word or sample playback), and the trombone, contrabass recorder, violin and electric guitar must all respond.

#### 2. DRONES

Each player has six noise drones.

Players may begin playing any of these drones at any point. Once they do this, they must continue to play the chosen drone until all players have joined them and are also playing drones.

Other players may continue with other cues until they choose to join those players playing a drone.

Once all players are playing a drone, the requirement to continue is cancelled, and drone players may return to giving other cues.

### 3. AUXILIARY INSTRUMENTS

Each player has 12 auxiliary instruments that produce short sounds (instruments that can produce longer sounds, such as harmonica, should also play only short sounds). At any point, a player may play one of their auxiliary sounds.

The other players must then play the same auxiliary sound as soon as possible afterwards.

desk bells: a single strike, with the bell sound left to ring on

whistles: a single short blow of the whistle

harmonicas: a single chord in any register (blowing or sucking). Each player should use the same sound each time if possible.

bicycle horns: a single honk of the horn

kazoos: a single 'ooh' sound on a comfortable vocal register. Each player should use the same sound each time if possible.

shakers: a short rapid shake of the instrument

tuning forks: a single strike on the table followed by a short amplification of the pitch by touching the end on the table.

glass bottles: a single short flute-like blow across the mouth of the bottle

metal biscuit tin lids: a single strike of the lid with knuckle or beater

wood boxes: a single strike of the box with knuckle or beater

squeakers: a single squeeze of the squeaker

music box mechanisms: a single short turn of the handle to produce a short sequence of pitches

The balance between these three states is free, but in general the word-sample cues should predominate with the drones and objects acting as interruptions, or running in parallel.

The sequence of cues is free, but the following should be considered:

- the piece explores multitasking and cognitive load
- the general pace of the cues should be fast, although wide variation should be explored.
- players can vary the density and complexity of the sequences of cues, managing the difficulty of response for other players.
- repetition, patterning, or sequences of either all spoken words or all samples might reduce the cognitive load on the responding players (reducing response times)
- each spoken cue has a sample equivalent, allowing mixed modes to be explored
- do your best: if you miss a cue, try to catch up or move on if you get too far behind.

The piece begins with the players giving word cues. Sample, drone and object cues should be gradually introduced.

The piece ends when the players stop giving cues and all have responded to the final cue.

The approximate duration should be decided in advance.

# **GENERAL INSTRUCTIONS**

o-pppp()	The sound should be on the edge of silence, and stop and start irregularly, or have an inconsistent quality due to any associated playing techniques.	bowed objects	Players should select indicated objects that produce a complex noise tone when bowed (with a lesser pitch component). Bow continuously to produce a sustained and uniform sound.
ppp(<>)	The sound should centre on the indicated dynamic, but allow any micro-variations to emerge naturally (do not try to play them though)	coffee cup on surfaces	A standard card takeaway coffee cup. Any flat surface may be selected to be sampled by the cup (e.g. a metal sheet, polystyrene block, a brick, a wooden tray, felt etc.) using the techniques indicated
WIND AND BRASS		U	Circle the cup on the surface using the base of cup on surface
[throat]	A very rapid series of single articulations of the air stream in the throat (not a growl or flutter-tongue). The pace should be as fast as possible, to the point where it is hard to control the regularity of the attack.	Λ	Circle the cup on the surface using rim of cup on surface (upside down)
		ELECTRIC GUITAF	₹
[air/noise]	Breath sound with little pitch component. Noise tones should be emphasised.		
[bleed]	Slightly lift fingers for given pitch to the point where it becomes	delay	c.200ms delay, or enough to thicken the tremolo attacks
[whistle tones]	unstable and try to maintain this point of balance.  Conventional whistle tones. Aim for a relatively stable pitch, but	distortion	Word-sample cues: overdrive, pitch should still be audible Noise drones: thick fuzz distortion, mostly noise
	accept any occasional oscillations.	woh	Class web nodel as indicated by a b.
+ [labium]	Partially block the recorder's labium to produce whistle tones	wah	Close wah pedal as indicated by o ──►+
		[damp]	Damp strings with side of right hand while picking to produce a muted pitch.
[keys] [air key]	Produce tremolo with melodica keys (not breath)  Press melodica air key only to produce air/noise sound.	+ [hammer]	Rapid hammer on and off with minimal movement (finger remains in contact with string)
[minimal air]	Minimal air pressure necessary to produce sound, which should be unstable as a result.	[pick scrape]	Slow and continuous pick scrape along string.
	be unstable as a result.	BOWED STRINGS	
+	Closed harmon mute		
0	Open harmon mute	diamond noteheads	Diamond noteheads indicate a harmonic pressure left hand fingering. The indicated pitch and roman numeral denote the position of the finger and the string to be used. This will produce a range of results from relatively clear harmonics through to (coloured) noise.
<b>+</b>	Blocked – as closed, but with extra pressure to seal the tube as much as possible.	[damp]	Damp all strings lightly with the fingers of the left hand. A coloured pitch/noise sound will result. Bow indicated strings.
+ *************************************	Mute tremolo involving a small uneven shaking movement of the mute centred on the position(s) indicated.	[tailpiece]	Bow the tailpiece to produce a resonant pitch/noise sound.
PERCUSSION		[body/wood]	Bow the body of the instrument, or a separate piece of wood if preferred.
x	Dead stroke	[body/wood]	bow the body of the instrument, of a separate piece of wood in preferred.
cuperball	Drag superball across vibraphone bar to produce a slightly	[spike (raised)]	Lift spike off floor and bow near its end.
superball	modulated sustained tone.	If string players prefer not to bow the tailpiece or body due to a concern about their instruments, those actions should be omitted from the pool of options available to them, or replaced by bowing a small piece of wood.	

# know that your actions reflect within the group

## / James Saunders / 2017













